

Deerfield and Roundabout Railway

Engine No. 284 Lubrication Chart

Unless specified otherwise use cylinder oil for all points.

April 12, 2011

Rt. = Right side of engine. Lt. = Left side of engine.

CAB AND THROTTLE GROUP

- Smoke box throttle shaft
- Smoke box throttle crank arm bushings
- Cab throttle quadrant bushings
- Reverse lever latch mechanism
- Reverse lever quadrant and reach rod bushings
- Cab brake operating lever bushing
- Cab brake steam supply valve stem
- Fire door gears two pivot bolts
- Blower valve stem
- Whistle valve stem
- Water glass blow down valve stem
- Boiler water fill valve stem
- Drain cock operating valve stem
- Axle pump bypass valve stem
- Rt. injector steam valve stem
- Rt. injector water valve stem
- Rt. injector emergency stop valve stem
- Lt. injector steam valve stem
- Lt. injector water valve stem
- Lt. injector emergency stop valve stem

VALVE GEAR GROUP

- Rt. valve stem
- Rt. valve stem cross head guides
- Rt. combination lever top and middle bushings
- Rt. link and link block
- Rt. link two trunnion bearings
- Rt. link eccentric rod bushing
- Rt. radius rod slide block and bushings
- Rt. reverse shaft bushing
- Rt. reverse crank arm top bushing
- Rt. power reverse reach rod
- Lt. valve stem
- Lt. valve stem cross head guides
- Lt. combination lever top and middle bushings
- Lt. link and link block
- Lt. link two trunnion bearings
- Lt. link eccentric rod bushing
- Lt. radius rod slide block and bushings
- Lt. reverse shaft bushing
- Cylinder oil pump mechanism

CROSS HEAD GROUP

- Rt. main rod wrist pin grease fitting
- Rt. piston rod
- Rt. cross head guide bar
- Rt. cross head union link bushing
- Rt. combination lever bottom bushings
- Lt. main rod wrist pin grease fitting
- Lt. piston rod
- Lt. cross head guide bar
- Lt. cross head union link bushing
- Lt. combination lever bottom bushings

SHUT DOWN GROUP

- Rt. front valve inspection port
- Rt. rear valve inspection port
- Lt. front valve inspection port
- Lt. rear valve inspection port
- Cylinder oil pump reservoir



TRAILER TRUCK GROUP

- Rt. front axle bearing
- Rt. front hub liner
- Rt. rear axle bearing
- Rt. rear hub liner
- Lt. front axle bearing
- Lt. front hub liner
- Lt. rear axle bearing
- Lt. rear hub liner

REAR DRIVER GROUP

- Rt. driver bearing
- Rt. hub liner
- Rt. pedestal shoes
- Rt. side rod bushing
- Lt. driver bearing
- Lt. hub liner
- Lt. pedestal shoes
- Lt. side rod bushing

MAIN DRIVER GROUP

- Rt. driver bearing
- Rt. hub liner
- Rt. pedestal shoes
- Rt. side rod bushing
- Rt. main rod bushing
- Rt. eccentric rod bushing
- Rt. side rod knuckle joint
- Rt. water pump eccentric
- Rt. water pump wrist pin
- Rt. water pump ram
- Lt. driver bearing
- Lt. hub liner
- Lt. pedestal shoes
- Lt. side rod bushing
- Lt. main rod bushing
- Lt. eccentric rod bushing
- Lt. side rod knuckle joint
- Lt. water pump eccentric
- Lt. water pump wrist pin
- Lt. water pump ram

INTERMEDIATE DRIVER GROUP

- Rt. driver bearing
- Rt. hub liner
- Rt. pedestal shoes
- Rt. side rod bushing
- Rt. side rod knuckle joint
- Lt. driver bearing
- Lt. hub liner
- Lt. pedestal shoes
- Lt. side rod bushing
- Lt. side rod knuckle joint

FRONT DRIVER GROUP

- Rt. driver bearing
- Rt. hub liner
- Rt. pedestal shoes
- Rt. side rod bushing
- Lt. driver bearing
- Lt. hub liner
- Lt. pedestal shoes
- Lt. side rod bushing

PONY TRUCK GROUP

- Rt. axle bearing
- Rt. hub liner
- Lt. axle bearing
- Lt. hub liner
- Truck center pin

GENERAL INSTRUCTIONS

Except for shut down group, all points to be lubricated at beginning of day's operation. Cylinder oil pump reservoir to be filled at beginning of day's operation, if necessary. Cylinder oil pump reservoir to be filled after 60 scale miles of operation. Shut down group to be lubricated at completion of day's operation. All valve inspection ports to be lubricated once with valve at full forward valve travel and then again at full backward valve travel. Side of engine shall be placed on either quarter to provide for maximum valve travel in full forward and backward gear. After lubricating all valve inspection ports drain cocks shall be left open and reverse lever centered. At shut down blower valve shall be left cracked open to prevent boiler vacuum pressure. Tender trucks to be lubricated when specified by the Superintendent of Motive Power.